CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date : 21.01.2021

GRADATION FOR WMM

Client **Executive Engineer** , R R Nagara Division, BBMP, Bangalore.
Agency **Sri C T Raju**, Contractor, Bangalore.
Name of Work Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 21.01.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	198	198	2.0	98.0	95-100
22.4	2563	2761	27.6	72.4	60-80
11.2	2321	5082	50.8	49.2	40-60
4.75	1654	6736	67.4	32.6	25-40
2.36	1127	7863	78.6	21.4	15-30
0.600	548	8411	84.1	15.9	8-22
0.075	1225	9636	96.4	3.6	0-5

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEER

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date : 21.01.2021

GRADATION FOR WMM

Client **Executive Engineer**, R R Nagara Division, BBMP, Bangalore.
Agency **Sri C T Raju**, Contractor, Bangalore.
Name of Work Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 21.01.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	165	165	1.7	98.4	95-100
22.4	2326	2491	24.9	75.1	60-80
11.2	2219	4710	47.1	52.9	40-60
4.75	1628	6338	63.4	36.6	25-40
2.36	1127	7465	74.7	25.4	15-30
0.600	541	8006	80.1	19.9	8-22
0.075	1547	9553	95.5	4.5	0-5

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Client **Executive Engineer**, R R Nagara Division, BBMP, Bangalore.
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Name of Work Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 21.01.2021
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	220	220	2.2	97.8	95-100
22.4	2563	2783	27.8	72.2	60-80
11.2	2212	4995	50.0	50.1	40-60
4.75	1623	6618	66.2	33.8	25-40
2.36	1127	7745	77.5	22.6	15-30
0.600	548	8293	82.9	17.1	8-22
0.075	1239	9532	95.3	4.7	0-5

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Job No.: CQCE/BBMP/VM/53/2020-2021 Date: 21.01.2021

Aggregate Impact Value

Client	**Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of the Work	Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	21.01.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	304	304	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.45	21.85	**21.65**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date: 21.01.2021

Aggregate Impact Value

Client	**Executive Engineer** , R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of the Work	Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	21.01.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	375	377	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	78	80	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	20.80	21.22	**21.01**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date : 21.01.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer** , R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of Work	Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	21.01.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.5	10.8	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	11.6	11.1	
	Combined Flakiness & Elongation index	22.10	21.9	

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date : 21.01.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer**, R R Nagara Division, BBMP, Bangalore.
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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	21.01.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.9	10.2	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	11.5	14.6	
	Combined Flakiness & Elongation index	24.40	24.8	

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer** , R R Nagara Division, BBMP, Bangalore.
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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	21.01.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.1	13.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.5	12.3	
	Combined Flakiness & Elongation index	25.60	25.9	

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Client	**Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	21.01.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.6	14.2	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.3	13.5	
	Combined Flakiness & Elongation index	23.90	27.7	

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21

Date 23.01.2021

ATTERBERG LIMITS TEST FOR WMM

Client **Executive Engineer ,** R R Nagara Division, BBMP, Bangalore.
Agency **Sri C T Raju,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.01.2021

ATTERBERG LIMITS TEST FOR WMM

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Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	24.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Agency Sri C T Raju, Contractor, Bangalore.
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IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Agency **Sri C T Raju,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.01.2021

ATTERBERG LIMITS TEST FOR WMM

Client **Executive Engineer**, R R Nagara Division, BBMP, Bangalore.
Agency **Sri C T Raju,** Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.01.2021

ATTERBERG LIMITS TEST FOR WMM

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Agency Sri C T Raju, Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	24.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/CTR/W.No.17/2020-21 Date 23.01.2021

ATTERBERG LIMITS TEST FOR WMM

Client Executive Engineer , R R Nagara Division, BBMP, Bangalore.
Agency Sri C T Raju, Contractor, Bangalore.
Name of Work : Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985
Date of Testing 21.01.2021 to 23.01.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No: CQCE/BBMP/CTR/W.No.17/2020-21

Date: 01.02.2021

TEST REPORT ON PAVING BITUMEN

Client	**Executive Engineer** , R R Nagara Division, BBMP, Bangalore.
Agency	**Sri C T Raju,** Contractor, Bangalore.
Name of work	Compreshensive development of roads, drains and footpath in HMT Layout, SBM Colony and Surrounding Areas in Ward No.17 under PACKAGE-2019-20 RRN-DIV-(10), BBMP, Bangalore.
BIS Code	IS 73:2013,IS 1203:1978, IS 1208:1978, IS 1205:1978, IS1448(P-69):1969
Date of Testing	**01.02.2021**
Type of Mix	**Dense Graded Bituminous Macadam , VG 30**
Source of Location	**Hot Mix Plant**

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	63	Min 45
2	Softening point, 0C	48	Min 47
3	Ductility at 250C, cm	99	Min40
4	Flash Point, 0C	226	Min 220

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